

Serial No. 10/681,845
January 18, 2005
Reply to the Office Action dated December 10, 2004
Page 4 of 9

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (original): A duplexer comprising:
a package;
a transmission band filter disposed in the package;
a reception band filter disposed in the package and connected in parallel to the transmission band filter and connected to an antenna terminal; and
an electroconductive lid sealing the package with the transmission band filter and the reception band filter disposed therein; wherein
the package is mounted on a mounting substrate having the antenna terminal and is covered with an electroconductive shield mounted on the mounting substrate;
at least one of the transmission band filter and the reception band filter has a ground terminal connected to the lid, the lid being electrically connected to the shield via a connecting member; and
the transmission band filter and the reception band filter have ground terminals electrically connected to a ground terminal of the mounting substrate.

Claim 2 (original): A duplexer according to Claim 1, wherein the shield is electrically connected to the ground terminal of the mounting substrate.

Claim 3 (original): A duplexer according to Claim 1, further comprising a matching circuit provided between the antenna terminal and at least one of the transmission band filter and the reception band filter.

Serial No. 10/681,845
January 18, 2005
Reply to the Office Action dated December 10, 2004
Page 5 of 9

Claim 4 (original): A duplexer according to Claim 1, wherein the ground terminals of the transmission band filter and the reception band filter are connected to the lid.

Claim 5 (original): A duplexer according to Claim 1, wherein the transmission band filter and the reception band filter are one of a bulk acoustic wave filter and a surface acoustic wave filter.

Claim 6 (original): A duplexer according to Claim 1, wherein the transmission band filter and the reception band filter are a combination of a bulk acoustic wave filter and a surface acoustic wave filter.

Claim 7 (original): A duplexer according to Claim 1, wherein the lid and the shield define a ground.

Claim 8 (original): A duplexer according to Claim 1, wherein each of the transmission band filter and the reception band filter is electrically connected to the lid and the shield.

Claim 9 (currently amended): A duplexer comprising a transmission band filter and a reception band filter connected in parallel to each other and connected to an antenna terminal;

the transmission band filter and the reception band filter being accommodated in separate packages covered with electroconductive lids, respectively;

the packages being mounted on a mounting substrate having the antenna terminal and being covered with an electroconductive shield mounted on the mounting substrate;

Serial No. 10/681,845
January 18, 2005
Reply to the Office Action dated December 10, 2004
Page 6 of 9

at least one of the transmission band filter and the reception band filter having a ground terminal connected to the respective lid, the respective lid being electrically connected to the shield via a connecting member; and

the transmission band filter and the reception band filter having ground terminals electrically connected to a ground terminal of the mounting substrate.

Claim 10 (original): A duplexer according to Claim 9, wherein the shield is electrically connected to the ground terminal of the mounting substrate.

Claim 11 (original): A duplexer according to Claim 9, further comprising a matching circuit provided between the antenna terminal and at least one of the transmission band filter and the reception band filter.

Claim 12 (currently amended): A duplexer according to Claim 9, wherein the ground terminals of the transmission band filter and the reception band filter are connected to the respective lid.

Claim 13 (original): A duplexer according to Claim 9, wherein the transmission band filter and the reception band filter are one of a bulk acoustic wave filter and a surface acoustic wave filter.

Claim 14 (original): A duplexer according to Claim 9, wherein the transmission band filter and the reception band filter are a combination of a bulk acoustic wave filter and a surface acoustic wave filter.

Claim 15 (currently amended): A duplexer according to Claim 9, wherein ~~the lid and the shield~~ and the respective lid that is electrically connected thereto define a ground.

Serial No. 10/681,845
January 18, 2005
Reply to the Office Action dated December 10, 2004
Page 7 of 9

Claim 16 (currently amended): A duplexer according to Claim 9, wherein each of the transmission band filter and the reception band filter is electrically connected to the respective lid and the shield.

Claim 17 (original): A composite module comprising at least one filter and a mounting portion;

the at least one filter being accommodated in at least one package covered with an electroconductive lid;

the at least one package being mounted on and joined to a mounting substrate via the mounting portion; and

the at least one filter having a ground terminal connected to the lid, the lid being electrically connected to a shield via a connecting member, and the ground terminal of the at least one filter being electrically connected to a ground terminal of the mounting substrate.

Claim 18 (original): A composite module according to Claim 17, wherein the at least one filter is a duplexer.